

**To:** Simon, Paul[Simon.Paul@epa.gov]  
**Cc:** Nurkin, Gary[Nurkin.Gary@epa.gov]; Meyer, George[Meyer.George@epa.gov]; Grossman, Lenny[Grossman.Lenny@epa.gov]; Sawyer, William[Sawyer.William@epa.gov]  
**From:** Tsiamis, Christos  
**Sent:** Thur 4/25/2013 6:45:20 PM  
**Subject:** RE: ord report on leaf testing

Hi Paul.

We are still doing various types of Gowanus Canal stabilized sediment testing at the labs. No report has been generated yet. The tests will continue for several months.

Christos

**From:** Simon, Paul  
**Sent:** Wednesday, April 24, 2013 6:05 PM  
**To:** Tsiamis, Christos  
**Cc:** Nurkin, Gary; Meyer, George; Grossman, Lenny; Sawyer, William  
**Subject:** FW: ord report on leaf testing

## Ex. 5 - Attorney Work Product

**From:** Enck, Judith  
**Sent:** Wednesday, April 24, 2013 5:54 PM  
**To:** LaPosta, Dore; Grossman, Lenny; Meyer, George; Simon, Paul  
**Subject:** FW: ord report on leaf testing

I mentioned the leaf testing in the context of superfund clean up of gowanus. See below. It

appears that the superfund program is using it and the statement by the aes lawyers that it is not widely used should perhaps be fact checked.

**From:** Tsiamis, Christos  
**Sent:** Wednesday, April 24, 2013 5:18 PM  
**To:** Enck, Judith  
**Cc:** Mugdan, Walter; Singerman, Joel  
**Subject:** RE: ord report on leaf testing

Judith,

I had a technical meeting with my contractor engineering team today to go over the lab work that we have been doing on samples collected at the Gowanus Canal. You will be interested to know that, in addition to the more severe acid leaching tests that I had mentioned during our meeting, we had also been performing leaching tests using the LEAF methodology.

As a matter of fact, a short while ago, we had included in our Gowanus team, as a consultant, Dr. Andy Garrabrants from Vanderbilt University who, it turns out, has led the team that developed LEAF (see his bio below).

Christos

Andy Garrabrants is an Associate Research Professor of Civil and Environmental Engineering at Vanderbilt University in Nashville, TN. where his research focuses on leaching tests and assessment approaches for estimating the fate and transport of constituents from soils, sediments and wastes.

His research focuses on continuing development and acceptance of standardized approaches toward environmental impact assessment of solid wastes, construction materials, soils, and sediments. He is the technical lead for the interlaboratory validation of the Leaching Environmental Assessment Framework (LEAF), developed in collaboration with the Energy Centre of the Netherlands, DHI Demark, and the Offices of Research and Development (ORD) and Solid Wastes (OSW) of the US Environmental Protection Agency.

**From:** Enck, Judith  
**Sent:** Tuesday, April 16, 2013 6:25 PM  
**To:** Tsiamis, Christos  
**Subject:** ord report on leaf testing

Plz drop off the original to me tomorrow or Thursday. Thanks Christos. I hope the red hook meeting went ok